



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

West Central Regional Office

3019 Peters Creek Road, Roanoke, Virginia 24019

(540) 562-6700 Fax (540) 562-6725

www.deq.virginia.gov

September 18, 2008

L. Preston Bryant, Jr.
Secretary of Natural Resources

David K. Paylor
Director

Steven A. Dietrich
Regional Director

CERTIFIED MAIL RETURN RECEIPT REQUESTED

Mr. Bruce R. Jones
Montgomery County Public Service Authority
Government Center Suite 2I
755 Roanoke Street
Christiansburg, VA 24073-3185

Re: **VPDES Permit No. VA0024040, Reissuance
Riner WWTP**

Dear Mr. Jones:

Your VPDES permit is enclosed. A Discharge Monitoring Report (DMR) form is included with the permit. Please make additional copies of the DMR for future use. The first DMR by this permit for the month of October is due by November 10, 2008. If you still have DMR data to report as required by the previous permit, please submit it as an attachment to the first DMR required by this permit. Monitoring results on the DMRs should be reported to the same number of significant digits as are included in the permit limit for the parameter. Please send DMRs to:

Virginia Department of Environmental Quality
West Central Regional Office
3019 Peters Creek Road
Roanoke, VA 24019-2738

Note that DEQ has launched an e-DMR program that allows you to submit the effluent data electronically. If you are interested in participating in this program please visit the following website for details: <http://www.deq.virginia.gov/water/edmrfaq.html>

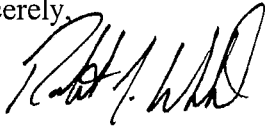
Permit No. VA0024040
Riner WWTP
Page 2 of 2

As provided by Rule 2A:2 of the Supreme Court of Virginia, you have thirty days from the date of service (the date you actually received this decision or the date it was mailed to you, whichever occurred first) within which to appeal this decision by filing a notice of appeal in accordance with the Rules of the Supreme Court of Virginia with the Director, Department of Environmental Quality. In the event that this decision is served on you by mail, three days are added to that period.

Alternatively, any owner under Section 62.1 - 44.16, 62.1 - 44.17, and 62.1 - 44.19 of the State Water Control Law aggrieved by any action of the State Water Control Board taken without a formal hearing, or by inaction of the Board, may demand in writing a formal hearing of such owner's grievance, provided a petition requesting such hearing is filed with the Board. Said petition must meet the requirements set forth in 9 VAC 25-230-130.B of Procedural Rule 1. In cases involving actions of the Board, such petition must be filed within thirty days after notice of such action is mailed to such owner by certified mail.

If you have questions about the permit, please call Becky L. France at (540) 562-6793.

Sincerely,

A handwritten signature in black ink, appearing to read "Robert J. Weld", written over a horizontal line.

Robert J. Weld
Deputy Regional Director

Enclosures: Permit No. VA0024040, Discharge Monitoring Report

cc: DEQ-OWPP
Department of Health – Abingdon Regional Office
EPA – Region III-3WP12

COMMONWEALTH OF VIRGINIA
DEPARTMENT OF ENVIRONMENTAL QUALITY
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM(NPDES)
DISCHARGE MONITORING REPORT(DMR)

PERMITTEE NAME/ADDRESS(INCLUDE
FACILITY NAME/LOCATION IF DIFFERENT)

NAME Riner WWTP
ADDRESS 755 Roanoke Street VA 24068
Christiansburg

FACILITY
LOCATION

Municipal Minor

08/28/2008

DEPT. OF ENVIRONMENTAL QUALITY
(REGIONAL OFFICE)

West Central Regional Office
3019 Peters Creek Road

Roanoke

VA 24019

VA0024040	001
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
			TO		

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS
BEFORE COMPLETING THIS FORM.

FROM

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
001 FLOW	REPORTD			*****	*****	*****			
	REQRMNT	0.10	MGD	*****	*****	*****		CONT	REC
002 PH	REPORTD	*****			*****				
	REQRMNT	*****		6.0	*****	9.0		1/DAY	GRAB
003 BOD5	REPORTD			*****					
	REQRMNT	7	KG/D	*****	19	28		1/W	4HC
004 TSS	REPORTD								
	REQRMNT	11	KG/D		30	45		1/W	4HC
007 DO	REPORTD	*****			*****	*****			
	REQRMNT	*****		7.0	*****	*****		1/DAY	GRAB
068 TKN (N-KJEL)	REPORTD			*****					
	REQRMNT	1900	G/D	*****	5.0	7.5		1/W	4HC
080 TEMPERATURE, WATER (DEG. C)	REPORTD	*****		*****	*****				
	REQRMNT	*****		*****	*****	NL	C	1/DAY	IS
846 E. COLI, > 1 SAMPLE/MONTH	REPORTD	*****		*****		*****			
	REQRMNT	*****		*****	126	*****	N/CML	1/W	GRAB

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND OVERFLOWS	TOTAL OCCURRENCES	TOTAL FLOW(M.G.)	TOTAL BOD5(K.G.)	OPERATOR IN RESPONSIBLE CHARGE		DATE						
				TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY			
				PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			TELEPHONE					
				TYPED OR PRINTED NAME	SIGNATURE	YEAR	MO.	DAY				

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE
PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED
TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION
SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR
THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION
SUBMITTED IS TO THE BEST OF MY KNOWLEDGE AND BELIEF TRUE, ACCURATE AND COMPLETE.
I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION,
INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18
U.S.C. & 1001 AND 33 U.S.C. & 1319. (Penalties under these statutes may include
fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

Permit No. **VA0024040**
Effective Date: September 21, 2008
Expiration Date: January 30, 2013

AUTHORIZATION TO DISCHARGE UNDER THE VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM

AND

THE VIRGINIA STATE WATER CONTROL LAW

In compliance with the provisions of the Clean Water Act as amended and pursuant to the State Water Control Law and regulations adopted pursuant thereto, the following owner is authorized to discharge in accordance with the information submitted with the permit application, and with this permit cover page, and Parts I and II of this permit, as set forth herein.

Owner Name: Montgomery County Public Service Authority
Facility Name: Riner WWTP
City: NA
County: Montgomery
Facility Location: 4351 Riner Road

The owner is authorized to discharge to the following receiving stream:

Stream Name: Mill Creek
River Basin: New River
River Subbasin: NA
Section: 2
Class: IV
Special Standards: v

A handwritten signature in black ink, appearing to read "R. J. Weld".

Robert J. Weld
Deputy Regional Director

9/18/08

Date

A. Final Limitations and Monitoring Requirements

1. During the period beginning with compliance with final effluent limitations, in accordance with the schedule of compliance in Part I.C, and lasting until the permit's expiration date, the permittee is authorized to discharge from outfall number 001. This discharge shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	<u>DISCHARGE LIMITATIONS</u>			<u>MONITORING REQUIREMENTS</u>	
	<u>Monthly Average</u>	<u>Weekly Average</u>	<u>Minimum</u>	<u>Frequency</u>	<u>Sample Type</u>
Flow (MGD) ^a	NL	NA	NA	Continuous	Recorded
pH (Standard Units)	NA	NA	6.0	1/Day	Grab
BOD ₅ ^b	19 mg/L 7 kg/d	28 mg/L 11 kg/d	NA	1/Week	4 HC
Total Suspended Solids ^b	30 mg/L 11 kg/d	45 mg/L 17 kg/d	NA	1/Week	4 HC
Dissolved Oxygen	NA	NA	7.0 mg/L	1/Day	Grab
Temperature	NA	NA	NA	1/Day	IS
Total Kjeldahl Nitrogen (Jan. - May) ^b	5.1 mg/L 1900 g/d	7.6 mg/L 2900 g/d	NA	1/Week	4 HC
Ammonia as Nitrogen (June - Dec.) ^{b,c}	1.8 mg/L	2.6 mg/L	NA	1/Week	4 HC
Copper, Total Recoverable ^{b,c}	14 µg/L	14 µg/L	NA	1/Month	Grab
Zinc, Total Recoverable ^{b,c}	110 µg/L	110 µg/L	NA	1/Month	Grab
<u>E. coli</u> ^d	126 cfu/100 mL	NA	NA	1/Week	Grab (between 10 AM and 4 PM)

NL = No Limitation with monitoring required NA = Not Applicable IS = Immersion Stabilization 4HC = 4 hour composite

- a. The design flow of this treatment facility is 0.10 MGD.
- b. See Part I.D for quantification levels and reporting requirements.
- c. See Part I.C for schedule of compliance for ammonia, copper, and zinc.
- d. See Part I.B for alternative total residual chlorine monitoring requirements.
- e. There shall be no discharge of floating solids or visible foam in other than trace amounts.
- f. At least 85% removal for BOD₅ and TSS must be attained for this effluent.

A. Interim Limitations and Monitoring Requirements

2. During the period beginning with the permit's effective date and lasting until the achievement of compliance with the final effluent limitations, in accordance with the schedule of compliance with Part I.C, the permittee is authorized to discharge from outfall number 001. This discharge shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>DISCHARGE LIMITATIONS</u>			<u>MONITORING REQUIREMENTS</u>	
	<u>Monthly Average</u>	<u>Weekly Average</u>	<u>Minimum</u>	<u>Frequency</u>	<u>Sample Type</u>
Flow (MGD) ^a	NL	NA	NA	Continuous	Recorded
pH (Standard Units)	NA	NA	6.0	1/Day	Grab
BOD ₅ ^b	19 mg/L 7 kg/d	28 mg/L 11 kg/d	NA	1/Week	4 HC
Total Suspended Solids ^b	30 mg/L 11 kg/d	45 mg/L 17 kg/d	NA	1/Week	4 HC
Dissolved Oxygen	NA	NA	7.0 mg/L	1/Day	Grab
Total Kjeldahl Nitrogen ^b	5.0 mg/L 1900 g/d	7.5 mg/L 2800 g/d	NA	1/Week	4 HC
Temperature	NA	NA	NA	1/Day	IS
E. coli ^d	126 cfu/ 100 mL	NA	NA	1/Week	Grab (between 10 AM and 4 PM)
NL = No Limitation with monitoring required		NA = Not Applicable	IS = Immersion Stabilization	4HC = 4 hour composite	

- The design flow of this treatment facility is 0.10 MGD.
- See Part I.D for quantification levels and reporting requirements.
- See Part I.C for schedule of compliance for ammonia, copper, and zinc.
- See Part I.B for alternative total residual chlorine monitoring requirements.
- There shall be no discharge of floating solids or visible foam in other than trace amounts.
- At least 85% removal for BOD₅ and TSS must be attained for this effluent.

B. Total Residual Chlorine Limitations and Monitoring Requirements

If chlorination is chosen as a disinfection method, TRC [DMR #005] shall be limited and monitored by the permittee as specified below:

1. Effluent TRC shall be monitored, following dechlorination, and limited as specified below:

<u>Effluent Characteristic</u>	<u>DISCHARGE LIMITATIONS</u>		<u>MONITORING REQUIREMENTS</u>	
	<u>Monthly Average</u>	<u>Weekly Maximum</u>	<u>Frequency</u>	<u>Sample Type</u>
TRC	0.004 mg/L	0.005 mg/L	1/Day	Grab

2. TRC shall be monitored at the outlet of the chlorine contact tank, prior to dechlorination, 3/day at 4 hour intervals by grab sample.
3. No more than 9 of all samples taken at the outlet of the chlorine contact tank shall be less than 1.0 mg/L for any one calendar month. [DMR # 157]
4. No TRC sample collected at the outlet of the chlorine contact tank, prior to dechlorination, shall be less than 0.60 mg/L. [DMR # 213]
5. See Part I.D.1 for quantification level and reporting requirements for TRC.
6. When chlorine is the disinfection method, the monitoring frequency for E. coli monitoring frequency of 2/month (at least 7 days apart) shall replace the monitoring frequency of 1/week in Part I.A.

C. Schedule of Compliance

The permittee shall achieve compliance with the final limitations for ammonia as nitrogen, total recoverable copper, and total recoverable zinc contained in Part I.A, page 1 in accordance with the following schedule:

1. Select engineering firm by **December 21, 2008** for design of facilities or submit a proposed plan for achievement of compliance.
2. Annual compliance reports shall be submitted to the DEQ West Central Regional Office. The first annual progress report shall be due on **September 21, 2009**.
3. Achieve compliance with final effluent limitations by **September 21, 2012**.

C. Schedule of Compliance

No later than 14 calendar days following a date identified in the above schedule of compliance, the permittee shall submit to the DEQ staff, either a report of progress or, in the case of specific actions being required by identified dates, a written notice of compliance or noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement. The permittee shall also provide the DEQ with annual progress reports due until compliance is achieved.

D. Special Conditions

1. **Compliance Reporting for Part I.A and Part I.B**

- a. The quantification levels (QLs) shall be as follows:

<u>Effluent Characteristic</u>	<u>Quantification Level</u>
Ammonia as Nitrogen	0.20 mg/L
BOD ₅	5.0 mg/L
Total Suspended Solids	1.0 mg/L
Chlorine	0.10 mg/L
Copper, Total Recoverable	5.0 µg/L
Total Kjeldahl Nitrogen	0.50 mg/L
Zinc, Total Recoverable	5.0 µg/L

- b. Reporting

(1) Monthly Average

Compliance with the monthly average limitations and/or reporting requirements for the parameters listed in Part I.A and B shall be determined as follows: All concentration data below the QL listed in 1.a above shall be treated as zero. All concentration data equal to or above the QL listed above shall be treated as reported. An arithmetic average shall be calculated using all reported data for the month, including the defined zeros. This arithmetic average shall be reported on the Discharge Monitoring Report (DMR) as calculated. If all data are below the QL, then the average shall be reported as "<QL". If reporting for quantity is required on the DMR and the calculated concentration is <QL, then report "<QL" for the quantity. Otherwise use the concentration data to determine the quantity.

D. Special Conditions

2. **Compliance Reporting for Part I.A and Part I.B (Continued)**

(2) Weekly Average

Compliance with the weekly average limitations and/or reporting requirements for the parameters listed in Part I.A and B shall be determined as follows: All concentration data below the QL listed in 1.a above shall be treated as zero. All concentration data equal to or above the QL listed above shall be treated as reported. An arithmetic average shall be calculated using all reported data, including the defined zeros, collected within each complete calendar week and entirely contained within the reporting month. The maximum value of these weekly averages thus determined shall be reported on the DMR. If all data are below the QL, then the average shall be reported as "<QL". If reporting for quantity is required on the DMR and the calculated concentration is <QL, then report "<QL" for the quantity. Otherwise use the concentration data to determine the quantity.

(3) Any single datum required shall be reported as "<QL" if it is less than the QL listed in 1.a above. Otherwise the numerical value shall be reported.

(4) Significant Digits

The permittee shall report at least the same number of significant digits as the permit limit for a given parameter. Regardless of the rounding convention used by the permittee (i.e., 5 always rounding up to or to the nearest even number), the permittee shall use the convention consistently, and shall ensure that consulting laboratories employed by the permittee use the same convention.

2. **95% Capacity Reopener**

A written notice and a plan of action for ensuring continued compliance with the terms of this permit shall be submitted to the West Central Regional Office, 3019 Peters Creek Road, Roanoke, Virginia, 24019, when the monthly average flow influent to the sewage treatment plant reaches 95 percent of the design capacity authorized in this permit for each month of any three consecutive month period. The written notice shall be submitted within 30 days and the plan of action shall be received at the West Central Regional Office **no later than 90 days from the third consecutive month**

D. Special Conditions

2. **95% Capacity Reopener (Continued)**

for which the flow reached 95 percent of the design capacity. The plan shall include the necessary steps and a prompt schedule of implementation for controlling any current or reasonably anticipated problem resulting from high influent flows. Failure to submit an adequate plan in a timely manner shall be deemed a violation of this permit.

3. **Indirect Dischargers**

The permittee shall provide adequate notice to the Department of the following:

- a. Any new introduction of pollutants into the treatment works from an indirect discharger which would be subject to Section 301 or 306 of the Clean Water Act and the State Water Control Law if it were directly discharging those pollutants; and
- b. Any substantial change in the volume or character of pollutants being introduced into the treatment works by a source introducing pollutants into the treatment works at the time of issuance of this permit.

Adequate notice shall include information on (i) the quality and quantity of effluent introduced into the treatment works, and (ii) any anticipated impact of the change on the quantity or quality of effluent to be discharged from the treatment works.

4. **CTC, CTO Requirement**

The permittee shall, in accordance with the DEQ Sewage Collection and Treatment Regulation (9 VAC 25-790), obtain a Certificate to Construct (CTC), and Certificate to Operate (CTO) from the DEQ prior to constructing wastewater treatment works and operating the treatment works, respectively. Non-compliance with the CTC or CTO shall be deemed a violation of the permit.

5. **Operations and Maintenance Manual Requirement**

The permittee shall review the existing Operations and Maintenance (O&M) Manual and notify the DEQ Regional Office, in writing by **December 20, 2008**, whether it is still accurate and complete. If the O&M Manual is not longer accurate and complete, a revised O&M Manual shall be submitted for approval to the DEQ Regional Office by **December 20, 2008**. The permittee will maintain an accurate, approved O&M

D. Special Conditions

5. **Operations and Maintenance Manual Requirement (Continued)**

Manual for the sewage treatment works. This manual shall include, but not necessarily be limited to, the following items as appropriate:

- a. Techniques to be employed in the collection, preservation, and analysis of effluent samples (and sludge samples if sludge analyses are required);
- b. Discussion of Best Management Practices, if applicable;
- c. Treatment works design, treatment works operation, routine preventative maintenance of units within the treatment system, critical spare parts inventory and record keeping;
- d. Procedures for handling, storing, and disposing of all wastes, fluids, and pollutants that will prevent these materials from reaching state waters.

Any changes in the practices and procedures followed by the permittee shall be documented and submitted for staff approval within 90 days of the effective date of the changes. Upon approval of the submitted manual changes, the revised manual becomes an enforceable part of the permit. Noncompliance with the O&M Manual shall be deemed a violation of the permit.

6. **Licensed Operator Requirement**

The permittee shall employ or contract at least one Class III licensed wastewater works operator for this facility. The license shall be issued in accordance with Title 54.1 of the Code of Virginia and the regulations of the Board for Waterworks and Wastewater Works Operators. The permittee shall notify the Department in writing whenever he is not complying, or has grounds for anticipating he will not comply with this requirement. The notification shall include a statement of reasons and a prompt schedule for achieving compliance.

7. **Reliability Class**

The permitted treatment works shall meet Reliability Class II requirements.

D. Special Conditions

8. **Sludge Reopener**

The Board may promptly modify or revoke and reissue this permit if any applicable standard for sewage sludge use or disposal promulgated under Section 405(d) of the Clean Water Act is more stringent than any requirements for sludge use or disposal in this permit, or controls a pollutant or practice not limited in this permit.

9. **Sludge Use and Disposal**

The permittee shall conduct all sewage sludge use or disposal activities in accordance with the Sludge Management Plan (SMP) approved with the reissuance of this permit. **Any proposed changes in the sewage sludge use or disposal practices or procedures followed by the permittee shall be documented and submitted for DEQ approval 90 days prior to the effective date of the changes.** Upon approval, the revised SMP becomes an enforceable part of the permit. The permit may be modified or alternatively revoked and reissued to incorporate limitations or conditions by substantive changes in sewage sludge use or disposal practice.

10. **Total Maximum Daily Load (TMDL) Reopener**

This permit shall be modified or alternatively revoked and reissued if any approved wasteload allocation procedure, pursuant to Section 303(d) of the Clean Water Act, imposes wasteload allocation, limits, or conditions on the facility that are not consistent with permit requirements.

11. **Water Quality Criteria Monitoring**

The permittee shall monitor the effluent at outfall 001 for the substances noted in Attachment A of the permit according to the indicated analysis number, quantification level, sample type, and frequency. Monitoring data shall be collected once during the permit term after **September 21, 2011** and no later than **September 30, 2012**. Using the Attachment as the reporting form, the data shall be submitted on the 10th of the month following sampling but no later than **October 10, 2012**. Laboratory data summary sheet and chain of custody sheets shall be submitted with Attachment A of the permit to document the laboratory methods used, practicable quantification levels, field collection, and preservation methods. Monitoring and analysis shall be conducted

D. Special Conditions

11. **Water Quality Criteria Monitoring (Continued)**

in accordance with 40 CFR Part 136 or alternative EPA approved methods. It is the responsibility of the permittee to ensure that proper QA/QC protocols are followed during the sample gathering and analytical procedures. The DEQ will use these data for making specific permit decisions in the future. This permit may be modified or, alternatively, revoked and reissued to incorporate limits for any of the substances listed in Attachment A.

WATER QUALITY CRITERIA MONITORING -- Part I Attachment A

CASRN#	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL ⁽¹⁾	REPORTING RESULTS	SAMPLE TYPE ⁽²⁾	SAMPLE FREQUENCY
METALS						
7440-36-0	Antimony, dissolved	(3)	5		G or C	1/5 YR
7440-28-0	Thallium, dissolved	(4)	(5)		G or C	1/5 YR
PESTICIDES/PCB'S						
72-54-8	DDD	608	0.1		G or SC	1/5 YR
72-55-9	DDE	608	0.1		G or SC	1/5 YR
7421-93-4	Endrin Aldehyde	(4)	(5)		G or SC	1/5 YR
1024-57-3	Heptachlor Epoxide	(4)	(5)		G or SC	1/5 YR
319-84-6	Hexachlorocyclohexane Alpha-BHC	608	(5)		G or SC	1/5 YR
319-85-7	Hexachlorocyclohexane Beta-BHC	608	(5)		G or SC	1/5 YR
143-50-0	Kepone	(9)	(5)		G or SC	1/5 YR
BASE NEUTRAL EXTRACTABLES						
83-32-9	Acenaphthene	625	10.0		G or SC	1/5 YR
92-87-5	Benzidine	(4)	(5)		G or SC	1/5 YR
111-44-4	Bis 2-Chloroethyl Ether	(4)	(5)		G or SC	1/5 YR
39638-32-9	Bis 2-Chloroisopropyl Ether	(4)	(5)		G or SC	1/5 YR
85-68-7	Butyl benzyl phthalate	625	10.0		G or SC	1/5 YR
91-58-7	2-Chloronaphthalene	(4)	(5)		G or SC	1/5 YR
84-74-2	Dibutyl phthalate (synonym = Di-n-Butyl Phthalate)	625	10.0		G or SC	1/5 YR
91-94-1	3,3-Dichlorobenzidine	(4)	(5)		G or SC	1/5 YR
84-66-2	Diethyl phthalate	625	10.0		G or SC	1/5 YR
131-11-3	Dimethyl phthalate	(4)	(5)		G or SC	1/5 YR
122-66-7	1,2-Diphenylhydrazine	(4)	(5)		G or SC	1/5 YR
118-74-1	Hexachlorobenzene	(4)	(5)		G or SC	1/5 YR
87-68-3	Hexachlorobutadiene	(4)	(5)		G or SC	1/5 YR
77-47-4	Hexachlorocyclopentadiene	(4)	(5)		G or SC	1/5 YR
67-72-1	Hexachloroethane	(4)	(5)		G or SC	1/5 YR
98-95-3	Nitrobenzene	625	10.0		G or SC	1/5 YR

WATER QUALITY CRITERIA MONITORING -- Part I Attachment A

CASRN#	CHEMICAL	EPA ANALYSIS NO.	QUANTIFICATION LEVEL ⁽¹⁾	REPORTING RESULTS	SAMPLE TYPE ⁽²⁾	SAMPLE FREQUENCY
62-75-9	N-Nitrosodimethylamine	(4)	(5)		G or SC	1/5 YR
621-64-7	N-Nitrosodi-n-propylamine	(4)	(5)		G or SC	1/5 YR
86-30-6	N-Nitrosodiphenylamine	(4)	(5)		G or SC	1/5 YR
120-82-1	1,2,4-Trichlorobenzene	625	10.0		G or SC	1/5 YR
VOLATILES						
107-02-8	Acrolein	(4)	(5)		G	1/5 YR
107-13-1	Acrylonitrile	(4)	(5)		G	1/5 YR
75-35-4	1,1-Dichloroethylene	624	10.0		G	1/5 YR
156-60-5	1,2-trans-dichloroethylene	(4)	(5)		G	1/5 YR
78-87-5	1,2-Dichloropropane	(4)	(5)		G	1/5 YR
542-75-6	1,3-Dichloropropene	(4)	(5)		G	1/5 YR
74-83-9	Methyl Bromide	(4)	(5)		G	1/5 YR
79-34-5	1,1,2,2-Tetrachloroethane	(4)	(5)		G	1/5 YR
79-00-5	1,1,2-Trichloroethane	(4)	(5)		G	1/5 YR
RADIONUCLIDES						
	Strontium 90 (pCi/L)	(4)	(5)		G or C	1/5 YR
	Tritium (pCi/L)	(4)	(5)		G or C	1/5 YR
	Beta Particle & Photon Activity (mrem/yr)	(4)	(5)		G or C	1/5 YR
	Gross Alpha Particle Activity (pCi/L)	(4)	(5)		G or C	1/5 YR
ACID EXTRACTABLES ⁽⁶⁾						
95-57-8	2-Chlorophenol	625	10.0		G or SC	1/5 YR
120-83-2	2,4 Dichlorophenol	625	10.0		G or SC	1/5 YR
105-67-9	2,4 Dimethylphenol	625	10.0		G or SC	1/5 YR
51-28-5	2,4-Dinitrophenol	(4)	(5)		G or SC	1/5 YR
534-52-1	2-Methyl-4,6-Dinitrophenol	(4)	(5)		G or SC	1/5 YR
MISCELLANEOUS						
7783-06-4	Hydrogen Sulfide	(4)	(5)		G or SC	1/5 YR
60-10-5	Tributyltin ⁽⁷⁾	NBSR 85-3295	(5)		G or C	1/5 YR

Permit No. VA0024040

WATER QUALITY CRITERIA MONITORING -- Part I Attachment A
Page 12 of 13

Name of Principal Exec. Officer or Authorized Agent/Title

Signature of Principal Officer or Authorized Agent/Date

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment for knowing violations. See 18 U.S.C. Sec. 1001 and 33 U.S.C. Sec. 1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)

FOOTNOTES:

- (1) Quantification level (QL) is defined as the lowest concentration used for the calibration of a measurement system when the calibration is in accordance with the procedures published for the required method.

Units for the quantification level are micrograms/liter unless otherwise specified.

Quality control and quality assurance information shall be submitted to document that the required quantification level has been attained.

- (2) Sample Type

G = Grab = An individual sample collected in less than 15 minutes. Substances specified with "grab" sample type shall only be collected as grabs. The permittee may analyze multiple grabs and report the average results provided that the individual grab results are also reported. For grab metals samples, the individual samples shall be filtered and preserved immediately upon collection.

C = Composite = A 24-hour composite unless otherwise specified. The composite shall be a combination of individual samples, taken proportional to flow, obtained at hourly or smaller time intervals. The individual samples may be of equal volume for flows that do not vary by +/- 10 percent over a 24-hour period.

SC = Special Composite = samples for base/neutral/acid compounds, PCBs, and pesticides must be collected as 4 individual grab samples taken proportional to flow at 6-hour intervals over the course of one day. The individual samples may be of equal volume for flows that do not vary by +/- 10 percent over a 24-hour period. Grab samples must be analyzed separately and the concentrations averaged. Alternately, grab samples may be collected in the field and composited in the laboratory if the compositing procedure produces results equivalent to results produced by arithmetic averaging of the results of analysis of individual grab samples.

- (3) A specific analytical method is not specified; however a quantification level for each metal has been established. An appropriate method to meet the quantification level shall be selected from the following list of EPA methods (or any approved method presented in 40 CFR Part 136). If the test result is less than the QL, a "<[QL]" shall be reported where the actual analytical test QL is substituted for [QL].

WATER QUALITY CRITERIA MONITORING -- Part I Attachment A

Page 13 of 13

<u>Metal</u>	<u>Analytical Method</u>
Antimony	1638; 1639
Arsenic	206.5; 1632
Chromium ⁽⁹⁾	1639
Cadmium	1637; 1638; 1639; 1640
Chromium VI	218.6; 1639
Copper	1638; 1640
Lead	1637; 1638; 1640
Mercury	245.7; 1631
Nickel	1638; 1639; 1640
Selenium	1638; 1639
Silver	1638
Zinc	1638; 1639

- (4) Any approved method presented in 40 CFR Part 136.
- (5) The QL is at the discretion of the permittee. For any substances addressed in 40 CFR Part 136, the permittee shall use one of the approved methods in 40 CFR Part 136.
- (6) Testing for phenol requires continuous extraction.
- (7) Analytical Methods: NBSR 85-3295 or DEQ's approved analysis for Tributyltin may also be used [See A Manual for the Analysis of Butyltins in Environmental Systems by the Virginia Institute of Marine Science, dated November 1996].

FOOTNOTES:

- (8) Both Chromium III and Chromium VI may be measured by the total chromium analysis. If the result of the total chromium analysis is less than or equal to the lesser of the Chromium III or Chromium VI method QL, the results for both Chromium III and Chromium VI can be reported as "<[QL]", where the actual analytical test QL is substituted for [QL].
- (9) The lab may use SW846 Method 8270D provided the lab has an Initial Demonstration of Capability, has passed a PT for Kepone, and meets the acceptance criteria for Kepone as given in Method 8270D

PART II - CONDITIONS APPLICABLE TO ALL VPDES PERMITS

A. Monitoring

1. Samples and measurements taken as required by this permit shall be representative of the monitored activity.
2. Monitoring shall be conducted according to procedures approved under Title 40 Code of Federal Regulations Part 136 or alternative methods approved by the U.S. Environmental Protection Agency, unless other procedures have been specified in this permit.
3. The permittee shall periodically calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals that will insure accuracy of measurements.

B. Records

1. Records of monitoring information shall include:
 - a. The date, exact place, and time of sampling or measurements;
 - b. The individual(s) who performed the sampling or measurements;
 - c. The date(s) and time(s) analyses were performed;
 - d. The individual(s) who performed the analyses;
 - e. The analytical techniques or methods used; and
 - f. The results of such analyses.
2. Except for records of monitoring information required by this permit related to the permittee's sewage sludge use and disposal activities, which shall be retained for a period of at least five years, the permittee shall retain records of all monitoring information, including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of the sample, measurement, report or application. This period of retention shall be extended automatically during the course of any unresolved litigation regarding the regulated activity or regarding control standards applicable to the permittee, or as requested by the Board.

C. Reporting Monitoring Results

1. The permittee shall submit the results of the monitoring required by this permit not later than the 10th day of the month after monitoring takes place, unless another reporting schedule is specified elsewhere in this permit. Monitoring results shall be submitted to:

Virginia Department of Environmental Quality
West Central Regional Office
3019 Peters Creek Road
Roanoke VA 24019-2738

2. Monitoring results shall be reported on a Discharge Monitoring Report (DMR) or on forms provided, approved or specified by the Department.

C. Reporting Monitoring Results (Continued)

3. If the permittee monitors any pollutant specifically addressed by this permit more frequently than required by this permit using test procedures approved under Title 40 of the Code of Federal Regulations Part 136 or using other test procedures approved by the U.S. Environmental Protection Agency or using procedures specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR or reporting form specified by the Department.
4. Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified in this permit.

D. Duty to Provide Information

The permittee shall furnish to the Department, within a reasonable time, any information which the Board may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The Board may require the permittee to furnish, upon request, such plans, specifications, and other pertinent information as may be necessary to determine the effect of the wastes from his discharge on the quality of state waters, or such other information as may be necessary to accomplish the purposes of the State Water Control Law. The permittee shall also furnish to the Department upon request, copies of records required to be kept by this permit.

E. Compliance Schedule Reports

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

F. Unauthorized Discharges

Except in compliance with this permit, or another permit issued by the Board, it shall be unlawful for any person to:

1. Discharge into state waters sewage, industrial wastes, other wastes, or any noxious or deleterious substances; or
2. Otherwise alter the physical, chemical or biological properties of such state waters and make them detrimental to the public health, or to animal or aquatic life, or to the use of such waters for domestic or industrial consumption, or for recreation, or for other uses.

G. Reports of Unauthorized Discharges

Any permittee who discharges or causes or allows a discharge of sewage, industrial waste, other wastes or any noxious or deleterious substance into or upon state waters in violation of Part II F; or who discharges or causes or allows a discharge that may reasonably be expected to enter state waters in violation of Part II F, shall notify the Department of the discharge immediately upon discovery of the discharge, but in no case later than 24 hours after said discovery. A written report of the unauthorized discharge shall be submitted to the Department, within five days of discovery of the discharge. The written report shall contain:

G. Reports of Unauthorized Discharges (Continued)

1. A description of the nature and location of the discharge;
2. The cause of the discharge;
3. The date on which the discharge occurred;
4. The length of time that the discharge continued;
5. The volume of the discharge;
6. If the discharge is continuing, how long it is expected to continue;
7. If the discharge is continuing, what the expected total volume of the discharge will be; and
8. Any steps planned or taken to reduce, eliminate and prevent a recurrence of the present discharge or any future discharges not authorized by this permit.

Discharges reportable to the Department under the immediate reporting requirements of other regulations are exempted from this requirement.

H. Reports of Unusual or Extraordinary Discharges

If any unusual or extraordinary discharge including a bypass or upset should occur from a treatment works and the discharge enters or could be expected to enter state waters, the permittee shall promptly notify, in no case later than 24 hours, the Department by telephone after the discovery of the discharge. This notification shall provide all available details of the incident, including any adverse affects on aquatic life and the known number of fish killed. The permittee shall reduce the report to writing and shall submit it to the Department within five days of discovery of the discharge in accordance with Part II I 2. Unusual and extraordinary discharges include but are not limited to any discharge resulting from:

1. Unusual spillage of materials resulting directly or indirectly from processing operations;
2. Breakdown of processing or accessory equipment;
3. Failure or taking out of service some or all of the treatment works; and
4. Flooding or other acts of nature.

I. Reports of Noncompliance

The permittee shall report any noncompliance which may adversely affect state waters or may endanger public health.

1. An oral report shall be provided within 24 hours from the time the permittee becomes aware of the circumstances. The following shall be included as information which shall be reported within 24 hours under this paragraph:
 - a. Any unanticipated bypass; and
 - b. Any upset which causes a discharge to surface waters.
2. A written report shall be submitted within 5 days and shall contain:
 - a. A description of the noncompliance and its cause;
 - b. The period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and
 - c. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

I. Reports of Noncompliance (Continued)

The Board may waive the written report on a case-by-case basis for reports of noncompliance under Part II I if the oral report has been received within 24 hours and no adverse impact on state waters has been reported.

3. The permittee shall report all instances of noncompliance not reported under Parts II I 1 or 2, in writing, at the time the next monitoring reports are submitted. The reports shall contain the information listed in Part II I 2.

NOTE: The immediate (within 24 hours) reports required in Parts II G, H and I may be made to the Department's Regional Office at (540) 562-6700 (voice) or (540) 562-6725 (fax). For reports outside normal working hours, leave a message and this shall fulfill the immediate reporting requirement. For emergencies, the Virginia Department of Emergency Services maintains a 24 hour telephone service at 1-800-468-8892.

J. Notice of Planned Changes

1. The permittee shall give notice to the Department as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required only when:
 - a. The permittee plans alteration or addition to any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:
 - (1) After promulgation of standards of performance under Section 306 of Clean Water Act which are applicable to such source; or
 - (2) After proposal of standards of performance in accordance with Section 306 of Clean Water Act which are applicable to such source, but only if the standards are promulgated in accordance with Section 306 within 120 days of their proposal;
 - b. The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged. This notification applies to pollutants which are subject neither to effluent limitations nor to notification requirements specified elsewhere in this permit; or
 - c. The alteration or addition results in a significant change in the permittee's sludge use or disposal practices, and such alteration, addition, or change may justify the application of permit conditions that are different from or absent in the existing permit, including notification of additional use or disposal sites not reported during the permit application process or not reported pursuant to an approved land application plan.
2. The permittee shall give advance notice to the Department of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

K. Signatory Requirements

1. Applications. All permit applications shall be signed as follows:
 - a. For a corporation: by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means: (i) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation, or (ii) the manager of one or more manufacturing, production, or operating facilities, provided the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures;
 - b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or
 - c. For a municipality, state, federal, or other public agency: By either a principal executive officer or ranking elected official. For purposes of this section, a principal executive officer of a public agency includes: (i) The chief executive officer of the agency, or (ii) a senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency.
2. Reports, etc. All reports required by permits, and other information requested by the Board shall be signed by a person described in Part II K 1, or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - a. The authorization is made in writing by a person described in Part II K 1;
 - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.); and
 - c. The written authorization is submitted to the Department.
3. Changes to authorization. If an authorization under Part II K 2 is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part II K 2 shall be submitted to the Department prior to or together with any reports, or information to be signed by an authorized representative.

K. Signatory Requirements (Continued)

4. Certification. Any person signing a document under Parts II K 1 or 2 shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

L. Duty to Comply

The permittee shall comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the State Water Control Law and the Clean Water Act, except that noncompliance with certain provisions of this permit may constitute a violation of the State Water Control Law but not the Clean Water Act. Permit noncompliance is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants and with standards for sewage sludge use or disposal established under Section 405(d) of the Clean Water Act within the time provided in the regulations that establish these standards or prohibitions or standards for sewage sludge use or disposal, even if this permit has not yet been modified to incorporate the requirement.

M. Duty to Reapply

If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee shall apply for and obtain a new permit. All permittees with a currently effective permit shall submit a new application at least 180 days before the expiration date of the existing permit, unless permission for a later date has been granted by the Board. The Board shall not grant permission for applications to be submitted later than the expiration date of the existing permit.

N. Effect of a Permit

This permit does not convey any property rights in either real or personal property or any exclusive privileges, nor does it authorize any injury to private property or invasion of personal rights, or any infringement of federal, state or local law or regulations.

O. State Law

Nothing in this permit shall be construed to preclude the institution of any legal action under, or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any other state law or regulation or under authority preserved by Section 510 of the Clean Water Act. Except as provided in permit conditions on "bypassing" (Part II U), and "upset" (Part II V) nothing in this permit shall be construed to relieve the permittee from civil and criminal penalties for noncompliance.

P. Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject under Sections 62.1-44.34:14 through 62.1-44.34:23 of the State Water Control Law.

Q. Proper Operation and Maintenance

The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes effective plant performance, adequate funding, adequate staffing, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by the permittee only when the operation is necessary to achieve compliance with the conditions of this permit.

R. Disposal of Solids or Sludges

Solids, sludges or other pollutants removed in the course of treatment or management of pollutants shall be disposed of in a manner so as to prevent any pollutant from such materials from entering state waters.

S. Duty to Mitigate

The permittee shall take all reasonable steps to minimize or prevent any discharge or sludge use or disposal in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

T. Need to Halt or Reduce Activity not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

U. Bypass

1. "Bypass" means the intentional diversion of waste streams from any portion of a treatment facility. The permittee may allow any bypass to occur which does not cause effluent limitations to be exceeded, but only if it also is for essential maintenance to assure efficient operation. These bypasses are not subject to the provisions of Parts II U 2 and U 3.
2. Notice
 - a. Anticipated bypass. If the permittee knows in advance of the need for a bypass, prior notice shall be submitted, if possible at least ten days before the date of the bypass.
 - b. Unanticipated bypass. The permittee shall submit notice of an unanticipated bypass as required in Part II I.
3. Prohibition of bypass.
 - a. Bypass is prohibited, and the Board may take enforcement action against a permittee for bypass, unless:
 - (1) Bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;

U. Bypass (Continued)

- (2) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgment to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and
 - (3) The permittee submitted notices as required under Part II U 2.
- b. The Board may approve an anticipated bypass, after considering its adverse effects, if the Board determines that it will meet the three conditions listed above in Part II U 3 a.

V. Upset

1. An upset constitutes an affirmative defense to an action brought for noncompliance with technology based permit effluent limitations if the requirements of Part II V 2 are met. A determination made during administrative review of claims that noncompliance was caused by upset, and before an action for noncompliance, is not a final administrative action subject to judicial review.
2. A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:
 - a. An upset occurred and that the permittee can identify the cause(s) of the upset;
 - b. The permitted facility was at the time being properly operated;
 - c. The permittee submitted notice of the upset as required in Part II I; and
 - d. The permittee complied with any remedial measures required under Part II S.
3. In any enforcement proceeding the permittee seeking to establish the occurrence of an upset has the burden of proof.

W. Inspection and Entry

The permittee shall allow the Director, or an authorized representative, upon presentation of credentials and other documents as may be required by law, to:

1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;
2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and
4. Sample or monitor at reasonable times, for the purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act and the State Water Control Law, any substances or parameters at any location.

W. Inspection and Entry (Continued)

For purposes of this section, the time for inspection shall be deemed reasonable during regular business hours, and whenever the facility is discharging. Nothing contained herein shall make an inspection unreasonable during an emergency.

X. Permit Actions

Permits may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance does not stay any permit condition.

Y. Transfer of permits

1. Permits are not transferable to any person except after notice to the Department. Except as provided in Part II Y 2, a permit may be transferred by the permittee to a new owner or operator only if the permit has been modified or revoked and reissued, or a minor modification made, to identify the new permittee and incorporate such other requirements as may be necessary under the State Water Control Law and the Clean Water Act.
2. As an alternative to transfers under Part II Y 1, this permit may be automatically transferred to a new permittee if:
 - a. The current permittee notifies the Department at least 30 days in advance of the proposed transfer of the title to the facility or property;
 - b. The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage, and liability between them; and
 - c. The Board does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement mentioned in Part II Y 2 b.

Z. Severability

The provisions of this permit are severable, and if any provision of this permit or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

